

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stefan KAMMERMEIER et al.

Title: PROCESS FOR PRODUCTION OF
IONICALLY CROSSLINKED
POLYSACCHARIDE MICROSPHERES

Appl. No.: 10/590,316

International 2/22/2005

Filing Date:

371(c) Date: 08/23/06

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicants believe that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date: November 29, 2006

By Richard L. Schwaab

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/590,316
Date Submitted: November 29, 2006 <i>(use as many sheets as necessary)</i>				Filing Date	2/22/2005
				First Named Inventor	Stefan Kammermeier
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	085449-0201

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (<i>if known</i>)			

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	A1	OLAV SMIDSØRD et al., "Chemistry and physical properties of alginates", Carbohydrates in Europe 1996, 14, pgs. 6-13			
	A2	OSATO MIYAWAKI et al., "Permeability and Molecular Sieving Characteristics of Nylon Microcapsule Membrane", Agric. Biol. Chem., 44 (12), 1980, pgs. 2865-2870			
	A3	ANNE C. HULST et al., "Immobilised Plant Cells: Respiration and Oxygen Transfer", J. Chem. Tech. Biotechnol., 35B, 1985, pgs. 198-204			
	A4	D.T. O'HAGAN, "The intestinal uptake of particles and the implications for drug and antigen delivery", J. Anat. 198, 1996, pgs. 477-482			
	A5	D. PONCELET et al., "Production of alginate beads by emulsification/internal gelation. II. Physicochemistry", Appl. Microbiol. Biotechnol., 43, 1995, pgs. 644-650			
	A6	D. LEMOINE et al., "Preparation and characterization of alginate microspheres containing a model antigen", International Journal of Pharmaceutics 176, 1998, pgs. 9-19			
	A7	H. HUANG et al., "Preparation and structure of silicon doped tin oxide composites using an advanced ultrasonic spray method", Solid State Ionics 120, 1999, pgs. 205-210			
	A8	B. BITTNER et al., "Ultrasonic atomization for spray drying: a versatile technique for the preparation of protein loaded biodegradable microspheres", J. Microencapsulation, Vol. 16, No. 3, 1999, pgs. 325-341			

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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